



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 19] नई दिल्ली, शनिवार, मई 10, 1980 (वैशाख 20, 1902)  
No. 19] NEW DELHI, SATURDAY, MAY 10, 1980 (VAISAKHA 20, 1902)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 10th May 1980

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

3rd April, 1980

- 383/Cal/80. Kosan Tenkova A/S. A valve unit for pressurized gas vessels, particularly liquefied gas bottles.
- 384/Cal/80. Klockner-Humboldt-Deutz Aktiengesellschaft. Heating apparatus for heating the service cab of a machine driven by an internal combustion engine.
- 385/Cal/80. T. H. Chen. A novel DC motor device.
- 386/Cal/80. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Housing for accommodating a control device with heat-evolving elements for a thread monitoring unit of an open-end spinning unit.
- 387/Cal/80. Dr. Dipak Guha. Improvements in or relating to device for the conversion of solar heat energy or any other form of heat energy to electrical energy through a modified electrochemical concentration cell.
- 388/Cal/80. Beloit Corporation. Method for waterproofing paper.
- 389/Cal/80. Sredneaziatsky Nauchno-Issledovatel'sky Institut Prirodnogo Gaza. Method of determining the

depth of occurrence of a chemically aggressive bed.

- 390/Cal/80. Sredneaziatsky Nauchno-Issledovatel'sky Institut Prirodnogo Gaza. Apparatus for the preparation of drilling mud.
- 391/Cal/80. Sredneaziatsky Nauchno-Issledovatel'sky Institut Prirodnogo Gaza. Method of filling-up a well and apparatus for performing same.
- 392/Cal/80. Sredneaziatsky Nauchno-Issledovatel'sky Institut Prirodnogo Gaza. Method of checking uniformity of bulk material flow and device therefor.

5th April, 1980

- 393/Cal/80. Elken-Spigerverket A/S. Arrangement for the cleaning of tapping pots.
- 394/Cal/80. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Housing for receiving a thread monitoring unit, which comprises a thread tension sensor.
- 395/Cal/80. Durapipe Limited. A method of and apparatus for extruding plastics products. (April 6, 1979).
- 396/Cal/80. Beloit Corporation. Method of and means for attaining uniformity in paper webs produced on a roll former.
- 397/Cal/80. Beloit Corporation. Method and apparatus for producing corrugated combined board.
- 398/Cal/80. Beloit Corporation. Headbox for forming multiply sheets.
- 399/Cal/80. Beloit Corporation. Web former.
- 400/Cal/80. Nauchno-Issledovatel'sky Institut Poroshkovoi Metallurgii Belorusskogo Politekhnikheskogo Instituta. Sintered iron-based friction material.

7th April, 1980

- 401/Cal/80. Shri Sunit Kumar Mukherjee. Improvements in or relating to the biogas digester and/or gobar gas plant.
- 402/Cal/80. Hoechst Aktiengesellschaft. Electrolysis apparatus.
- 403/Cal/80. Hoechst Aktiengesellschaft. Process for the dechlorination and cooling of the anolyte of the alkali metal halide electrolysis.
- 404/Cal/80. The B. F. Goodrich Company. Coating polymerization reactors with the reaction products of thiodiphenols and a bleach.
- 405/Cal/80. F. I. DU Pont DE Nemours and Company. Delay blasting cap.
- 406/Cal/80. S.E.C.A. Societe Anonyme. Power generator.

8th April, 1980

- 407/Cal/80. Dextec Metallurgical Pty. Ltd. Production of lead from ores and concentrates. (April 9, 1979).
- 408/Cal/80. Dana Corporation. Coupling lubrication system.
- 409/Cal/80. Nauchno-Issledovatel'skiy Institut Poroshkovoi Metallurgii Belorusskogo Politehnicheskogo Instituta. Sintered iron-based friction material.

9th April, 1980

- 410/Cal/80. Licinvest AG. Picture viewing device. [Addition to No. 1041/Cal/78].
- 411/Cal/80. D. E. Steele. Improvements relating to moisture meters of a type especially suitable for estimating the moisture content of organic materials. (April 10, 1979).
- 412/Cal/80. General Electric Company. Polycrystalline diamond body.

## APPLICATIONS FOR PATENTS AT THE (DELHI BRANCH)

25th February, 1980

- 130/DEL/80. Imperial Chemical Industries Limited. "Process for the manufacture of Guanidine Derivatives." (April 20, 1977) [Divisional date April 15, 1978].
- 131/DEL/80. Institut Merieux. "Injecting Device, in Particular for Medicinal Substances."
- 132/DEL/80. Otis Elevator Company. "Elevator Guide Rail Mounting Arrangement."

26th February, 1980

- 133/DEL/80. Shell Internationale Research Maatschappij B.V.. "Pesticidally-Active Concentrated Oil-In-Water Emulsions."
- 134/DEL/80. Sarwan Singh Bansal. "Hydraulically Operated Truck Mounted Articulating Boom Type Aerial Platform."
- 135/DEL/80. Sarwan Singh Bansal. "Hydraulically Operated Truck Mounted Vertical Elevating Type Tower Platform."

27th February, 1980

- 136/DEL/80. Ashok Kumar & Vijay Kumar. "A Method of Forming Improved Compact Formations."
- 137/DEL/80. Council of Scientific & Industrial Research. "A Process for the Preparation of improved cervical dilators."
- 138/DIL/80. Council of Scientific & Industrial Research. "Process for the production of printed electrodes for use in electro-optical display devices."
- 139/DEL/80. Felipe Salete-Carces. "Induction Type Cyclonic Separator."

- 140/DEL/80. Sulzer Brothers Limited. "A Method of obtaining Nickel from Laterite Ore."

29th February, 1980

- 141/DEL/80. Council of Scientific & Industrial Research. "An Improved Process for Recovery of Tin from Tin Scruff."
- 142/DEL/80. Council of Scientific & Industrial Research. "A New Electronic Non-Destructive Vacuum Measuring Instrument for Canned food products."
- 143/DEL/80. Council of Scientific & Industrial Research. "Improved Process for fabrication of nichrome-aluminium film resistors on glass-alumina Substrates."
- 144/DEL/80. Council of Scientific & Industrial Research. "Process for the Production of 17a-Methyl-3 $\beta$ -Pyrrolydino-17a-AZA-D-HOMO-5a-Androstane Dimethiodide (Dihydrochandonium Iodide)."

1st March, 1980

- 145/DEL/80. Fedders Lloyd Corporation Pvt. Ltd.. "A Water Dispenser Arrangement for Domestic Refrigerators."
- 146/DEL/80. International Computers Limited. "Improvements in or Relating to Driver Circuits for Automatic Digital Testing Apparatus." (March 13, 1979).
- 147/DEL/80. USS Engineers and Consultants, INC.. "Encircling Valve Spring Devices. (Convention date March 2, 1979)."
- 148/DEL/80. Otis Elevator Company. "Method and Apparatus for Fabricating and Installing Thermoset Sheave Inserts."
- 149/DEL/80. Sir Padampat Research Centre. "Process for producing solid composition containing finely distributed additives in the Polymer."

3rd March, 1980

- 150/DEL/80. Kapur Singh. "The reformed design of wind mill, to be called (AIRO ENGINE)."
- 151/DEL/80. UOP Inc.. "Conversion of Mercaptans contained in a Sour Petroleum Distillate."

4th March, 1980

- 152/DEL/80. Varahur Srinivasa Satyangrayana. "Weighing Apparatus."
- 153/DEL/80. C-I-L INC.. "Explosive Compositions Based on Time-Stable Colloidal Dispersions." (April 2, 1979).
- 154/DEL/80. Algas Resources Ltd.. "Method for Recovering Methane from Coal Seams." (October 19, 1979).

5th March, 1980

- 155/DEL/80. Ajeet Kumar Verma. "Preparation of comminuted beverages from Orange's and Lime's."
- 156/DEL/80. Bayer Aktiengesellschaft. "Anode for Alkali Metal Chloride Electrolysis."
- 157/DEL/80. Edward L. Bateman Limited. "Walking Machines."
- 158/DEL/80. Union Carbide Corporation. "Apparatus for Refining Molten Aluminium."

6th March, 1980

- 159/DEL/80. Pritam Singh Malhotra. "Deep Well Pump for Lifting Water."
- 160/DEL/80. The Regents of the University of California. "N-Sulfinyl Carbamates."
- 161/DEL/80. Pegler Hattersley Limited. "Improvements in Radiator Valves." (March 6, 1979).

7th March, 1980

- 162/DEL/80. Yallapragada Sambasiva Rao, "A Rail Fastening Assembly."
- 163/DEL/80. Yallapragada Sambasiva Rao, "A Rail Fastening Assembly."
- 164/DEL/80. Yallapragada Sambasiva Rao, "A Rail Fastening Assembly."
- 165/DEL/80. Bandag Incorporated, "Method and Apparatus for Non-Destructive Inspection of Tires."
- 166/DEL/80. Dresser Industries, INC., "Surface Mining Method and Apparatus."
- 167/DEL/80. Sig Societe Industrielle Suisse, "A Mobile Machine for the Treatment of Railway Tracks."
- 168/DEL/80. The Rank Organisation Limited, "Apparatus for use in film splicing." (March 7, 1979).

APPLICATION FOR PATENTS FILED AT THE  
(BOMBAY BRANCH)

7th March, 1980

- 51/BOM/1980. KOPLASTICS. "A guard for glass bottle".
- 52/BOM/1980. Dilip Ranganath Deshpande. "Electronic selector switch".
- 53/BOM/1980. Lavanya Silk Screen. "Doco Print Stickers".
- 54/BOM/1980. Rohitkumar Jashbbhai Patel, & Jitendrakumar Jashbbhai Patel. "An improved pair of grinding stones".
- 55/BOM/1980. Rohitkumar Jashbbhai Patel & Jitendrakumar Jashbbhai Patel. "An improved grinding machine for grinding solid substances".

10th March, 1980

- 56/BOM/1980. Ahmedabad Manufacturing & Calico Printing Company Limited. "Wicking print effect on polyester fabric". (Divisional dated November 3, 1979).

11th March, 1980

- 57/BOM/1980. Eagle Flask Private Ltd. "An improved vacuum flask".

12th March 1980

- 58/BOM/1980. Bhavani Agro Industries—1) "Improved kerosene stove".
- 59/BOM/1980. Smt. Raju Murlidhar Asrani. "Comb cleaner".

13th March, 1980

- 60/BOM/1980. Madhusudan. "Process for producing powder metal from steel scrap or high purity red oxide".

14th March, 1980

- 61/BOM/1980. Frederick Michael D'Souza. "A pilfer proof cap". (addition to No. 139/BOM/1979).

18th March, 1980

- 62/BOM/1980. Vithalbhai Ambalal Patel. "Foot message roller".
- 63/BOM/1980. Vithalbhai Ambalal Patel. "Pinhole spectacles".
- 64/BOM/1980. Vithalbhai Ambalal Patel. "Convertible bed".
- 65/BOM/1980. Pritam Lal. "Tube type shunt fuse device".
- 66/BOM/1980. Balubhai Haribhai Vasoya. "An invention for improvement and modification in a burner of non-pressure stove and contrivance for controlling electrical heat for producing gas from the fuel".

19th March, 1980

- 67/BOM/80. Karne Thukaram Muguttrao, A process for reconditioning of worn out roller journals.

- 68/BOM/80. Karne Thukaram Muguttrao, Improvements in or relating to cane cutters.

- 69/BOM/80. (1) Sudhakar Kashinath Kulkarni, (2) Indumati Sudhakar Kulkarni, Novel autotimer for use on inline fuel injection pumps.

20th March 1980

- 70/BOM/80. Shankar Ramchandra Pangam, Fuel avoiding multipurpose machine.
- 71/BOM/80. Rajiv Vasanttrao Bhagwat, Burette Reader.
- 72/BOM/80. Kumar Balram Bhatia, Cement concrete testing machine-cum-Brinell Metal hardness tester.
- 73/BOM/80. Dinesh Popatlal Sanghvi, Three way two terminal switch device.
- 74/BOM/80. Sudhir Vihnu Panse, an engine which can convert solar energy when stored in different forms, into useful work.

21st March, 1980

- 75/BOM/80. Prabatchandra Satishchandra Das, Spring winded pedal driven bicycle.
- 76/BOM/80. Hindustan Lever Limited, Shampoo (March 27, 1979).
- 77/BOM/80. Prabhakar Ganesh Kelkar, An improvement in or relating to the blades of a fan, propellor or the like.
- 78/BOM/80. Prabhakar Ganesh Kelkar, An Electrical Machine.

22nd March, 1980

- 79/BOM/80. Sher Prasad Tamrakar, A time indicator wall clock.
- 80/BOM/80. Yeshwant Parashuram Marathe, Angel measuring instrument using photo-cell.
- 81/BOM/80. Yeshwant Parashuram Marathe, Solid state switching for multi-point recorder.

APPLICATION FOR PATENTS FILED AT THE  
(MADRAS BRANCH)

24th March, 1980

- 58/MAS/80. C. A. Raja. Improvements in or relating to cleansing materials.
- 59/MAS/80. C. A. Raja. Improvements in or relating to means for opening packages made of paper, mill-board, carboard or like material, and packages, envelopes, containers and the like provided with such means.

26th March, 1980

- 60/MAS/80. Hindustan Photo films manufacturing company limited. The process for the preparation of sensitized silver halide emulsion used for manufacture of motion picture positive film.
- 61/MAS/80. S. Paramasivam. Improvements relating to files or folders.

27th March, 1980

- 62/MAS/80. G. P. R. Palnitkar. Theft alarm device.

28th March, 1980

- 63/MAS/80. K. S. Sharma. An improved fluid filtering apparatus.

31st March, 1980

- 64/MAS/80. Electronics Corpn. of India Ltd., A Thyristor Converter.
- 65/MAS/80. Electronics Corpn. of India Ltd., A Thyristor Converter.
- 66/MAS/80. Electronics Corpn. of India Ltd., A Thyristor Converter.

1st April, 1980

67/Mas/80. Brakes India Ltd., Improvements in Integral Shield Dust Cover for Hydraulic Brake Wheel Cylinder.

68/Mas/80. Venkat. A Floor Swab.

5th April, 1980

69/Mas/80. K. Srinannarayana. Apparatus for Instant Heating of Water.

70/Mas/80. Systematic Furniture Center. Chair Base for Moulded Chairs.

## COMPLETE SPECIFICATIONS ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 172F & 206E. 147633.  
Int. Cl.-D01h 13/26, D03j 1/00.

## A CIRCUITRY FOR YARN TENSION MEASURING DEVICE.

*Applicant*: INDIAN JUTE INDUSTRIES RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-53, WEST BENGAL, INDIA.

*Inventors*: SADHAN KUMAR DE AND MAJOR BHATTACHARYA.

Application No. 2188/Cal/76 filed December 13, 1976.

Complete Specification left February 13, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

Circuitry for a yarn tension measuring device comprising a step down transformer with at least two output tappings (or two step down transformers), first for obtaining a voltage which is lower than that obtainable at the second, a converter to convert A.C. voltage at the first tapping into D.C. voltage (first D.C. voltage), a filter for said first D.C. voltage, a voltage regulator to obtain first stabilized D.C. voltage for feeding to wheatstone bridge circuit of the yarn tension measuring device, rectifier to convert A.C. voltage from the second tapping to D.C. voltage (second D.C. voltage), filter for the said rectifier same, two zener diodes to obtain stabilized D.C. voltage of equal but opposite values with reference to a zero potential—ground/reference line—for feeding to amplifier and meter protection circuits of the yarn tension measuring device.

Prov. Specn. 9 Pages. Comp. Specn. 12 Pages. Drg. 3 Sheets.

CLASS 6A<sub>1</sub> & A<sub>2</sub>.

147634.

Int. Cl.-F04b 19/00.

## IMPROVEMENT IN OR RELATING TO OSCILLATING VACUUM PUMPS.

*Applicant & Inventor*: SUBHASH KUMAR NARULA, 39, NORTH AVENUE, PUNJABI BAGH, NEW DELHI-110026, INDIA.

Application No. 77/Del/78 filed January 28, 1978.

Complete Specification left February 27, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 9 Claims.

An improved oscillating vacuum pump comprising a pump housing provided with on either ends a rubber diaphragm, two connecting rods fixed in the centre by means of anti-friction ball bearing, inlet and outlet metallic valves fixed in opposite directions, an inlet connecting the inlet metallic valve for sucking out the air from the chamber where the vacuum is desired be created, an outlet connecting the outlet metallic valve for discharging the sucked out air, and a crank shaft for operating the pump.

Prov. Specn. 1 page. Comp. Specn. 9 Pages. Drg. 4 Sheets.

CLASS 49B.

147635.

Int. Cl.-A47j 27/00.

## IMPROVED PORTABLE OVEN.

*Applicant & Inventor*: ARTHUR A. SHARON, AT 11 STELLA MARIS STREET, BARRIO KAPITOLYO, PASIC, RIZAL PHILIPPINES.

Application No. 1012/Cal/77 filed July 5, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A portable oven set comprising in combination:

a base plate that is adapted to be placed on top of a gas burner or electric hot plate and having a circular flat bottomed portion with slightly raised circumferential edge; and an upwardly extending frusto-conical opening in the center thereof;

an oven that is placed on top of said base plate having an upwardly extending wall and a substantially flat bottom wall with circular groove and an upwardly extending frusto-conical opening in the center of said bottom wall; and

a cover placed on top of said oven having a flat top and downwardly extending skirt containing a plurality of holes that allow the passage of hot air from the interior of said oven.

Comp. Specn. 9 Pages.

Drg. 2 Sheets.

CLASS 66D.

147636.

Int. Cl.-H01k 3/00.

## DEVICE FOR APPLYING CEMENT TO ELECTRIC BULB BASE.

*Applicant & Inventor*: GENNADY IVANOVICH GRISHAEV, OF SARANSK PROSPEKT 50 LET OKTYABRYA, 103, KV. 15, U.S.S.R. AND NIKOLAI IVANOVICH TSYGANKIN, OF SARANSK ULITS A NNY LUSS, 2, KV. 25, U.S.S.R.

Application No. 1508/Cal/77 filed October 13, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

A device for applying cement to the electric bulb base comprising a tank with a hatching head and a spring-loaded rod arranged along the tank axis and provided with a cut-off valve; the upper part of the rod is connected by a bracket with an immovable guide and the rod is screwed into the

bracket whose reciprocating motion is limited, for delivering the requisite amount of cement into the base.

Comp. Specn. 6 Pages.

Drg. 1 Sheet.

CLASS 140A.

147637.

Int. Cl.-C10m 11/00.

IMPROVEMENTS IN OR RELATING TO AN APPARATUS FOR THE PROCESSING OF USED LUBRICATING OILS.

*Applicant & Inventor* : HARRY LEE DANZIGER, OF 21A CORK STREET, OLD BOND STREET, LONDON W1X 1HB, ENGLAND.

Application No. 45/Cal/78 filed January 13, 1978.

Convention date January 15, 1977/(38288/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

Apparatus for treating used lubricating oil on a continuous flow basis, comprising an inlet line and an outlet line for oil to be treated and, in succession in the direction of flow from the inlet line to the outlet line, a first filter unit, a vaporizer unit to heat the oil sufficiently to drive off water and volatiles, further filter units including an earth filter, and mixing means for adding additives to the oil, with pump means to pump the oil from the inlet line through said first filter unit, vaporizer unit, further filter units and mixing means to the outlet line, and a vacuum pump to exhaust vapour from the vaporizer unit.

Comp. Specn. 7 Pages.

Drg. 3 Sheets.

CLASS 182C.

147638.

Int. Cl.-C13c 3/00, C07d 5/22.

METHOD OF AND APPARATUS FOR STORING AND PROCESSING SUGAR CANE BAGASSE OR LIKE VEGETABLE RESIDUES INTENDED FOR THE PRODUCTION OF FURFURAL.

*Applicants* : KONRAD RUCKSTHUL, EIDGENOSSEN-WEIG 14 A, CH-4002 BASEL, SWITZERLAND AND ESCHER WYSS A.G., HARDSTR. 319, CH-8023 ZURICH, SWITZERLAND.

*Inventors* : ULRICH BALLMER AND WOLFGANG JAEGLLE.

Application No. 221/Cal/78 filed March 1, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Method for storing and processing sugar cane bagasse intended for the production of furfural, characterised in that green crude bagasse is freed from heavy contaminations such as sand, metal particles by floating washing, reducing its water content by pressing while it is in the softened wet state, and during further transport or prior to or immediately after the transport, to an amount of 75% to 80% which still permits the bagasse to absorb a low percentage of liquid, thereafter its water content is increased again by spraying with water during the further transport prior to accumulation in storage stacks, to an amount which corresponds to the maximum water absorption ability of the bagasse.

Comp. Specn. 12 Pages.

Drg. 6 Sheets.

CLASS 63-I.

147639.

Int. Cl.-H02p 1/00.

IMPROVEMENTS RELATING TO PULSE CONTROLLERS FOR CONTROLLING THE ENERGISATION AND REGENERATIVE BRAKING OF A DC ELECTRIC MOTOR.

*Applicant* : CABLEFORM LIMITED, OF GREEN LANE, ROMILEY, STOCKPORT, CHESHIRE, ENGLAND.

*Inventors* : JOHN MORTON AND KEITH DRUMMOND STEVENS.

Application No. 116/Del/78 filed February 10, 1978.

Convention date February 11, 1977/(05853/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

13 Claims. No drawings.

A pulse controller for controlling the energisation and regenerative braking of a DC electric motor, comprising an electronic switch for connecting the motor to a power source during motor driving and for controlling motor current during regenerative braking, means for rendering the electronic switch alternately conductive and non-conductive, and means for controlling the ratio of conductive to non-conductive periods to control the motor current during regenerative braking, wherein the conductive and non-conductive periods are interrelated such that, regardless of the ratio between the periods, the switch alternates between its conductive and non-conductive states at a rate sufficient to automatically maintain the motor current within desired maximum and minimum limits.

Comp. Specn. 26 Pages.

Drgs. Nil.

CLASS 56B & 84B.

147640.

Int. Cl.-C07c 3/50, C10g 1/00.

PROCESS FOR PREPARING LIQUID HYDROCARBONS FROM COAL.

*Applicant* : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, NETHERLANDS.

*Inventors* : LAMBERT SCHAPER AND SWAN TIONG SIE.

Application No. 357/Del/78 filed May 11, 1978.

Convention date May 13, 1977/(20237/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

A process for preparing liquid hydrocarbons from coal, characterized in that

- the coal is converted into a mixture of carbon monoxide and hydrogen by gasification at a temperature between 1050 and 2000°C;
- the mixture of carbon monoxide and hydrogen is converted into an aromatic hydrocarbon mixture using a catalyst which contains a crystalline aluminosilicate zeolite having an  $\text{SiO}_2/\text{Al}_2\text{O}_3$  molar ratio of at least 12 and a constraint index between 1 and 12;
- from the aromatic hydrocarbon mixture an isobutane-containing gaseous fraction and an aromatic liquid fraction boiling in the gasoline range are separated;
- the isobutane-containing gaseous fraction is converted by alkylation into an isoparaffin product from which a fraction boiling in the gasoline range is separated, and
- the two fractions boiling in the gasoline range obtained according to (c) and (d) are mixed.

Complete Specn. 34 Pages.

Drgs. 2 Sheet.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

(1)

141483 141484 141485 141486 141487 141488 141489 141490  
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141508.

## (2)

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141937 141938 141940 141941 141942 141943 141944 141945  
141946 141947 141948 141949 141950 141951 141952 141933  
141954

## PATENTS SEALED

141924 145852 145853 146399 146432 146439 146510 146536  
146555 146560 146603 146611 146612 146782

## AMENDMENT PROCEEDINGS UNDER SECTION 57

## (1)

Notice is hereby given that The Sarangpur Cotton Manufacturing Company Limited, of Amraiwadi Road, Ahmedabad-8, Gujarat, India, an Indian Company have made an application under Section 57 of the Patents Act, 1970 for amendment for application of their application for Patent No. 140051 for, "Process and device for producing bonded textile or other sheet materials having a pattern and/or embossed

surface'. The amendment are by way of correction by altering the address for service in the application documents on file. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Todi Estates, Lower Parel, West Bombay-400013, on any working days during usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on the prescribed form 30 within three months from the date of this Notification, at the Patent Office Branch, Bombay. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing the said notice.

## (2)

The amendment proposed by Mitja Victor Hinderks in respect of patent application No. 146037 as advertised in Part III, Section 2 of the Gazette of India dated the 20th October, 1979 has been allowed.

## Commercial Working of Patented Invention

## LIST NO. VII

THE FOLLOWING PATENTS IN THE FIELD OF CHEMICAL ENGINEERING ARE NOT BEING WORKED COMMERCIALY IN INDIA AS ADMITTED BY THE PATENTEES IN THE STATEMENT FILED BY THEM UNDER SECTION 146(2) OF THE PATENTS ACT, 1970 IN RESPECT OF CALENDAR YEAR 1978, GENERALLY ON ACCOUNT OF WANT OF REQUESTS FOR LICENCES TO WORK THE PATENTED INVENTIONS.

PERSONS WHO ARE INTERESTED TO WORK COMMERCIALY THE SAID PATENTS MAY CONTACT THE PATENTEES FOR THE GRANT OF LICENCES FOR THE ABOVE PURPOSE.

S. No.	Patent No.	Date	Name of Patentees	Title of the invention
1.	140221	11-09-1973	C.S.I.R., Rafi Marg, New Delhi, India.	Process insulating Refractory Bricks
2.	140377	17-07-1974	C.S.I.R., NEW DELHI, INDIA'	Preperation of Magnesium fluogermanate red phosphor
3.	140379	22-12-1973	HOECHST AG., FRANKFURT/MAIN F.R.G.	Purification of Copper Phthiocyannin.
4.	140388	07-04-1975	PLASMESCO A.G. HUNIBUHL 8, CH-6300 ZUG, SWITZERLAND.	Process for isolating albumin from blood.
5.	140393	22-03-1973	C.S.I.R. RAFI MARG, NEW DELHI, INDIA.	New Method of Making thermosetting plastic moulding Powder.
6.	140400	17-06-1974	DO.	Preparation of purified stable fibrinogen from human plasma.
7.	140419	17-06-1974	DO.	New detergent having hypolensive and Spasmolytic properties from roots of the plant <i>colegus bambatus</i> .
8.	140421	05-11-1974	MONSANTO COMPANY, 800 NORTH LINDBERG BOULEVARD, ST. LOUIS, MISSOURI 63166, USA	Preperation of herbicidal alkyl esters of n-phosphonomethyl glycine and their salts.
9.	140432	19-12-1973	C.S.I.R., New Delhi, India.	Etching composition suitable for etching on glass to give permanent and opaque markings.
10.	140433	15-02-1974	WEST'S (MANCHESTER) LTD., MANCHESTER, MIO SAB LANCASHIRE, ENGLAND.	Calcination of lime.
11.	140442	23-02-1973	CIBA GEIGY AG., KLYBECKSTRASSE 141, BASLE, SWITZERLAND.	Manufacture of Reactive bis-azo dyestuffs
12.	140449	27-03-1974	HOECHST AG. 6230, FRANKFURT MAIN 80, F.R.G.	Preparation of mono pigments.
13.	140452	12-01-1976	MARUZEN OIL CO. LTD., NO. 3, MAGAHORO-BASHISUJI 1-CHOME, MINAMI-KU, OSAKA, JAPAN	Method for diaphragm electrolysis of alkali metal halides
14.	140458	04-01-1974	DR. C. OTTO AND COMP. GmbH, CHRISTSTRASSE 9, POSTFACH 1849/1850, 463, BOCHUM, WEST GERMANY.	Conversion of solid fuels into liquid and gaseous fuels.
15.	140460	19-11-1974	PFIZER INC., 235 EAST 442nd STREET, NEW YORK, STATE OF NEW YORK, U.S.A.	Preparation of quinoxolines.
16.	140465	05-04-1974	METALLGESELLSCHAFT 16, FRANKFURT, AM, REUTERWEG 14, WEST GERMANY.	Process for gasification of hydrocarbons.

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17. 140468	17-10-1974	PREROVSKE STROJIRNY NARODNI RODNIK, PREROV, CZECHOSLOVAKIA.	Apparatus for burning raw cement materials and pulverous lime.
18. 140487	24-01-1973	HOECHST AG., FRANKFURT, F.R.G	Preparation of monoazo pigments.
19. 140500	07-11-1974	ETHICON INC. SOMERVILLE NEW JERSEY, USA	Method of Swaging of suture of surgical needle.
20. 140507	01-09-1973	ENCO INDUSTRIES LTD., 2, GIBBS ROAD, ISLINGTON 678 ONTARIO, CANADA.	Preparation of Chlorine dioxide.
21. 140508	17-09-1973	CIBA GEIGY A.G., 141 KLYBECKSTRASSE, BASLE, SWITZERLAND.	Preparation of azo compounds.
22. 140509	20-11-1974	C.S.I.R., NEW DELHI, INDIA.	Preparation of benzyl alcohol free from Chlorine. grade by electrolytic reduction of benzoic acid using rotating deposited lead cathode.
23. 140537	06-12-1973	DO.	Electrolytic colouring of aluminium and its alloys for decoration.
24. 140538	10-10-1973	DO.	Phosphating of steel.
25. 140540	26-03-1974	SHUNJI ABE, 1-BANCHI, OAZA TSUCHIKAMA, OJIYA-SHI, NIIGATA-KEN, JAPAN.	Preparing snack-food from starch.
26. 140550	09-11-1973	B.E.G.U.S.S.A., 9 WEISSFRAUNENSTRASSE, FRANKFURT MAIN F.R.G.	Preparation of rubber mixtures having reinforcing additives.
27. 140563	12-03-1975	NORSK HYDRO A.S., BYGDO ALLE 2, OSLO 2, NORWAY.	Production of Calcium Phosphate.
28. 140565	21-08-1973	IMPERIAL CHEMICAL INDUSTRIES LTD., IMPERIAL CHEMICAL HOUSE, MILL BANK, LONDON SW1, ENGLAND.	Production of laces and granules of Thermo-plastic polymers.
29. 140571	21-06-1974	METALLGESELLSCHAFT, REUTERWEG 14, WEST GERMANY.	Pelletising Disc.
30. 140577	08-10-1974	THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCE, ANSARI NAGAR, NEW DELHI, INDIA.	Preparation for the treatment of Ichthyosis.
31. 140584	13-09-1974	C.S.I.R., RAFI MARG, NEW DELHI, INDIA.	Preparation of porous polymeric composition of uncharged and charged types.
32. 140593	25-09-1974	JOHNSON JOHNSON, 501, GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, U.S.A.	Preparation of stabilized tretin in Cream emulsion for topical application.
33. 140599	25-07-1975	JOHON WYETH AND BROTHER LTD., HUNTER COMBE, LANE SOUTH TAPLOW, MAIDENHEAD BERKSHIRE ENGLAND.	Preparation of Novel piperidine derivatives.
34. 140614	07-07-1973	AMICON CORPN., 25 HANTWELL AVENUE, LEXINGTON, MASSACHUSETTS, U.S.A.	Disposable liquid concentrating device.
35. 140622	26-03-1973	GENERAL ELECTRIC CO., 1 RIVER ROAD, SCHENECTADY, NEW YORK, U.S.A.	Method of compounding thermoplastic polymeric material and filler.
36. 140623	18-07-1973	SHELL INTERNATIONALE RESEARCH MAAT-SCHPPIJ B.V. CAREL VAN BYLANDTLAN 30, THE HAGUE, THE NETHERLANDS.	Preparation of Ketones.
37. 140627	28-11-1973	C.S.I.R., RAFI MARG, NEW DELHI, INDIA.	Removing phosphorous and Iron from Fluorspar.
38. 140632	06-06-1974	DO.	Production of semicoke and a fuel gas having calorific values.
39. 140639	09-01-1974	HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOME, 165/166, BACKBAY RECLAMATION, BOMBAY-20, INDIA.	Detergent bars.
40. 140643	20-08-1976	S.K. PODDAR, 39 RAY BAHADUR M.C. LAHIRI STREET, P.O. SERAMPORE, Distt : HOOGLY (WEST BENGAL), INDIA.	Apparatus for instant preparation of tea or like beverages and for boiling vegetables, eggs or like including a toaster.
41. 140646	17-07-1973	(1) FRITZ STAHLCKER, JOSEF-NEIDHART-STRASSE 18, D-7341 NAD-UBERKINGEN WEST GERMANY. (2) HANS STAHLCKER, HALDENSTRASSE 20, D-7334, SUSSEN, WEST GERMANY.	Apparatus for removing impurities from fibres.
42. 140659	22-12-1973	HOECHST A.G., FRANKFURT MAIN, F.R.G.	Preparation of pure organic pigment.
43. 140661	21-05-1974	AMERICAN CYANAMID CO., WAYNE, NEW JERSEY, U.S.A.	Preparation of pyrazolium salts.

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44. 140672	16-10-1973	SIEMENS A.G. BERLIN AND MUNICH, WEST GERMANY.	Permanent polymerization of material.	Piezo electric
45. 140716	29-05-1974	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Polymerizing ; X-olefins.	
46. 140727	23-11-1973	THE LUBRIZOL CORPN; 3057, EUCLID STATION, CLEVELAND, OHIO, 44117, U.S.A.	Preparation of basic alkali sulfonate dispersions.	
47. 140728	26-12-1973	RUBBER AND PLASTIC RESEARCH ASSOCIATION GREAT BRITAIN, SHOWBURY, SHREWSBURY, SHROPSHIRE, ENGLAND.	Preparation of finely divided vulcanised rubber.	
48. 140730	24-03-1975	AMERICAN CYANAMID CO., WAYNE, NEW JERSEY, U.S.A.	Stabilization of 4-cyano-22-dimethyl butyraldoxime methyl carbamate.	
49. 140732	11-03-1975	PFIZER INC., NEW YORK, U.S.A.	Immobilization of microbial cells.	
50. 140737	21-01-1975	C.S.I.R., NEW DELHI, INDIA.	Electrolytic production of P-aminophenol.	
51. 140738	04-12-1973	HOECHST A.G. 6230 FRANKFURT/MAIN 80, F.R.G.	One package ester adhesive.	
52. 140747	20-03-1975	(1) JONHSON & JOHNSON AND (2) PURALOTOR INC, both of New BRUNSWICK, NEW JERSEY, U.S.A.	A blood filter unit.	
53. 140755	28-06-1974	GULF OIL CORPN; GULF BUILDING, 7th AVENUE ; GRANT STREET, PITTSBURGH, PENNSYLVANIA, U.S.A.	Preparing Deashed solid and liquid hydrocarbonaceous fuel.	
54. 140756	28-06-1974	DO.	DO.	
55. 140776	26-02-1974	SUMITOMO ALUMINIUM SMELTING CO. LTD. CHOME, HIGASHIKU, OSAKA, JAPAN.	Continuous production of aqueous basic aluminium Salt solution.	
56. 140780	05-10-1974	UNIVERSAL OIL PRODUCTS INC., 10 UOP PLAZA ALGONQUIN & Mt. PROSPECT ROAD, DES PLAINES, ILLINOIS, U.S.A.	Hydrometallurgical recovery of Nickel from a laterite nickel ore.	
57. 140782	12-12-1974	THE LUBRIZOL CORPN., EUCLID STATION, OHIO, U.S.A.	Preparing amine containing organic compositions.	
58. 140784	20-03-1975	(1) JOHNSON & JOHNSON AND (2) PURALOTOR INC., U.S.A.	Blood filtration Unit.	
59. 140786	19-05-1975	SNAMPROGETTI S.p.A., 16 CORSO VENEZIA, MILAN, ITALY.	Separating acetylenic compounds from hydrocarbon mixture.	
60. 140800	31-03-1973	(1) L' AIR LIQUIDE, 75 QUAI, PARIS FRANCE (2) SOCIETY ANONYME POUR L' ETUDES ET L' EXPLOITATION DES PROCEDES GEORGES CLAUDE AND ANTAR, PETROLES DE L' ATLANTIQUE, 4 RUE LEON JOST, PARIS, FRANCE.	Regeneration of inert mass containing catalytically active metals.	
61. 140801	29-06-1973	UOP INC., DES PLAINES, ILLINOIS, U.S.A.	Iso-Paraffin-Olefin alkylation process.	
62. 140810	26-09-1973	AIR PRODUCTS AND CHEMICALS INC., 5 EXECUTIVE MALL, WAYNE, PENNSYLVANIA, U.S.A.	Production of synthetic natural gas from crude oil.	
63. 140811	18-10-1973	SOLVAY AND CIE, 33 RUE DU PRINCE ALBERT, B-1050, BRUSSELS BELGIUM.	Polymerization of olefins.	
64. 140813	13-12-1973	G.D. SOCIETA PER AZIONI, VIA POMPIA 10, BOLOGNA, ITALY.	Apparatus for discharge of products.	
65. 140814	07-01-1974	THE GOODYEAR TIRE AND RUBBER CO., 114, EAST MARKET ST., AKRON, OHIO, U.S.A.	Preparation of Pigmental polyethylene terephthalate.	
66. 140820	20-03-1974	FMC CORPORATION., 633 THIRD AVENUE, NEW YORK, N.Y., U.S.A.	Briquetting of reactive coal calcinate with high temperature coke oven pitch.	
67. 140824	25-06-1974	ROBERT BOSCH GMBH, POST FACH 50, 7, STUFFGART 1, WEST GERMANY.	Activated sintered X-alumina.	
68. 140834	02-01-1975	AMERICAN CYANAMID CO., WAYNE, NEW JERSEY, U.S.A.	Preparation of substituted chalcones.	
69. 140836	21-02-1975	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Dyestuff composition for dying and printing of cellulose fibre material.	
70. 140839	20-09-1973	PFIZER INC., NEW YORK, U.S.A.	Preparing dminonicotinonitrile.	
71. 140842	10-07-1975	CHINOIN GYOGYSZERES, VEGYESZETI, TERMEKET, GYARA RT OF TO UTEA, 1-5, BUDAPEST IV, HUNGARY.	Preparation of N-(Carbonyl-Oxyphenyl) carbamates.	



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72. 140849	25-05-1973	THE CARBORUNDUM COMPANY, 1625, BUFFALO AVENUE, NIAGARA FALLS, NIAGARA COUNTRY, NEW YORK, U.S.A.	Moldable refractory cement for use in high temperature equipment.
73. 140854	28-11-1973	HITACHI LIMITED, 4-1, CHOME, MARUNONCHI, CHIYODA-KU, TOKYO, JAPAN.	Production of Novel thermosetting resin.
74. 140857	22-03-1974	INSTITUT FRANCAIS DV PETROLE, DES CARBURANTS ET LUBRIFIANTS, 1et, 4, AVENUE DE BOIS PREAU 92302, REUIL MALMAISON, FRANCE.	Preparation of polymeric composition.
75. 140858	11-06-1974	MAY AND BAKER LTD., DAGENHAM, ESSEX, ENGLAND.	Preparation of azapurinone derivatives.
76. 140859	01-07-1974	F.L. SMIDT AND CO., A/S, 77 VIGERSLEV ALLE, DK-2500, COPENHAGEN VALBY, DENMARK.	Rotary Kiln plant for burning pulverous granular material.
77. 140861	02-08-1974	UOP INC., DES PLAINES, ILLINOIS, U.S.A.	Hydrogen fluoride alkylation process.
78. 140863	26-09-1974	MONASANTO COMPANY, 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI, U.S.A.	Production of ethylbenzene.
79. 140874	01-08-1973	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Preparation of Parinone dyestuffs.
80. 140890	01-11-1974	POLYSAR LIMITED, SARNIA, ONTARIO, CANADA.	Preparation of thermoplastic rubber composition.
81. 140891	06-11-1974	MONSANTO COMPANY, ST. LOUIS, MISSOURI, U.S.A.	Production of n-phosphonomethyl glycine triesters.
82. 140893	18-11-1974	CINCINNATI MILACRON CHEMICALS INC., READING STATE OF OHIO, U.S.A.	Production of alkyltin halides.
83. 140895	26-11-1974	THE GOODYEAR TIRE AND RUBBER CO. AKRON, OHIO, U.S.A.	Flame retardant copolyester compositions.
84. 140899	30-01-1975	HOECHST A.G., FRANKFURT MAIN, F.R.G.	Printing or pad dyeing cellulose/polyester mixed fabrics.
85. 140900	14-02-1975	CANADIAN INDUSTRIES LTD., 630, DORCHESTER, BOULEVARD, WEST, MONTREAL H C R QUEBEC, CANADA.	Manufacture of stabilized air bubble containing explosive compositions.
86. 140905	20-05-1975	AMERICAN CYANAMID CO., NEW JERSEY, U.S.A.	Preparation of novel phenoxybenzyl esters of sporocarboxylic acids.
87. 140907	10-09-1975	SOCIETE FRANCAIS DES PRODUITS POUR CATALYSE 4, AVENUE DE BOUS-PREAU, RUEIL MALMAISON, FRANCE.	Catalytic hydrocarbon reforming process.
88. 140918	19-07-1974	C.S.I.R. RAFI MARG, NEW DELHI, India.	Preparing Phosphor grade since sulphide for the preparation of luminescent phosphors useful for luminescent devices.
89. 140919	28-07-1973	MARATTON OIL COMPANY, 539, SOUTH MAIN STREET, FINDLAY, OHIO-45840, U.S.A.	Preparing and transporting hydrocarbon mixtures as mixtures as slurry.
90. 140929	23-09-1974	METALLGESELLSCHAFT, FRANKFURT, AM REUTERWEG 14, FRG.	Production of carbon monoxide from light hydrocarbons.
91. 140934	05-05-1973	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Preparation of New water soluble heavy metal complex dyestuffs.
92. 140940	14-02-1974	BHONE PROGIL, 25 QUAI PAUL DOUMER, 92408, COURBEVOIE, FRANCE.	Bulk Preparation of vinyl chloride polymers.
93. 140944	06-08-1974	KAMYR INC., FLENS FALLS, NEW YORK, USA.	Producing gas from coal.
94. 140948	25-11-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., THE HAGUE, THE NETHERLANDS	Production of reduced gas.
95. 140959	27-09-1973	UOP INC., DES PLAINES, ILLINOIS, U.S.A.	Manufacturing a catalyst for isomerization of hydrocarbons.
96. 140961	15-12-1973	(1) SOCIETE NATIONALE DES POURRES ET EXPLOSIES, 12, QUAI HENRY IV, PARIS CEDEX, FRANCE. (2) ANTAR PETROLES DE L ATLANTIQUE, 4, RUE LEON JOST, PARIS and 3) ANTAGAZ, 20 RUE DE WASHINGTON, PARIS FRANCE	Apparatus for concentrating dilute solution
97. 140973	02-04-1976	HOECHST A.G., 6230 FRANKFURT/MAIN 80, F.R.G.	Preparation of polypropylene molding composition.

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98.	140976	17-09-1973	SHELL INTERNATIONALE RESEARCH MAAT-SCHAPPIJ B.V., THE HAGUE, THE NETHERLANDS.	Preparation of Synthesis gas.
99.	140994	04-09-1974	ELKEM SPIGERVERKET A/S, MIDDLETHUNSGATE, 27, OSLO 3, NORWAY.	Cast iron articles repairing method.
100.	141008	18-08-1973	PRODUITS CHIMIQUES UGINE KUHLMANN 25, BOULEVARD 1 AMIRAL BRUIX, PARIS 16 EME, FRANCE.	Catalytic oxidation of orthoxylene to phthalic anhydride.
101.	141009	05-09-1973	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Preparation of new water soluble reactive dyestuffs of the anthraquinone series.
102.	141010	14-09-1973	SUN RESEARCH AND DEVL. CO., 1608, WALNUT STREET, CITY PHILADELPHIA, PENNSYLVANIA, U.S.A.	Aromatic carboxylic acids.
103.	141012	02-11-1973	FISONS LIMITED, FISON HOUSE, 9, GROS-VENOR STREET, LONDON, ENGLAND.	Production of Phosphoric acid by wet process.
104.	141013	14-11-1973	GENERAL ELECTRIC CO., 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, U.S.A.	Thermally curing polymeric material.
105.	141031	15-01-1976	INTEROX CHEMICALS LTD., HANOVER HOUSE 14, HANOVER SQUARE, LONDON, W1R 0BE, ENGLAND.	Process for Epoxidation of an alkene by reaction with a peracid.
106.	141032	02-11-1973	FISONS LTD., LONDON, ENGLAND	Production of Phosphoric acid by wet process.
107.	141042	21-12-1973	CELANESE CORPN., 522 FIFTH AVENUE, NEW YORK, NEW YORK, U.S.A.	Process for preparing stabilised polyalkylene terephthalate resin composition.
108.	141050	02-01-1975	AMERICAN CYANAMID CO., NEW JERSEY, U.S.A.	Preparation of substituted Benzothiophenes
109.	141051	24-05-1972	NORTON CO., 1 NEW BOND STREET, WARESTER, STATE OF MASSACHUSETTS, U.S.A.	Alumina Zirconia abrasive materials.
110.	141058	22-01-1974	CIBA GEIGY A.G., BASLE, SWITZERLAND.	Manufacture of New Vat dyestuffs.
111.	141082	21-08-1973	THE BENEFIELD CORPN., 640, SPRUCE LANE, BERWYNE, COMMONWEALTH OF PENNSYLVANIA, U.S.A.	Aqueous solution for absorbing carbon-dioxide from gas mixtures.
112.	141090	20-07-1974	ELKEM SPIGERVERKET A/S ELKENHUSET, IDLETHUNSGATE 27, OSLO-3, NORWAY.	Method of producing pellets from ores and/or concentrates which contain metal oxides.
113.	141103	23-11-1973	ICI AUSTRALIA LTD. NICHOLSON STREET, MELBOURNE, VICTORIA, AUSTRALIA.	Water bearing explosive composition.
114.	141112	17-07-1973	CHOAY SA 48, AVENUE, THEOPHILE, GANIT-IES, 75, PARIS, PARIS, FRANCE.	Lubricant oil composition.
115.	141114	14-11-1973	THE LUBRIZOL CORPN., 3057 EUCLID STATION, CLEVELAND OHIO, U.S.A.	DO.
116.	141126	10-05-1974	SNAMPROGETTI S.p.A. MILAN, ITALY.	Partial oxidation of organic compound.
117.	141129	21-01-1975	C.S.I.R., NEW DELHI, INDIA.	Fermentation process for the production of Calcium Gluconate.
118.	141142	03-12-1973	C.S.I.R., NEW DELHI, INDIA.	Desulfurization gasification of high sulphur.
119.	141145	10-04-1974	ELKEM SPIGERVERKET A/S, OSLO-3, NORWAY	Production of burned pellets from material containing metal oxides.
120.	141155	08-06-1976	BEHRINGWERKE A.G., MARBURG/LAHN, F.R.G.	Preparing virus vaccines.
121.	141156	29-01-1974	CHIEF CONTROLLER R&D, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI INDIA.	Waterproofing chrome leather.
122.	141160	16-01-1974	SHELL INTERNATIONALE RESEARCH MAAT-SCHAPPIJ B.V., THE HAGUE, THE NETHERLANDS	Gas Preparation Process.
123.	141164	07-03-1975	ELI LILLY CO., MCCARTNY STREET, INDIANA U.S.A.	Preparation of 5-Triazole (3, 4-β) Benzo-thiazoles.
124.	141166	31-07-1975	CARTER WALLACE INC., 767, FIFTH AVENUE NEW YORK, U.S.A.	Preparation of microcrystalline-3 (α-aceto nyl benzy)-4-hydroxy coum: rin.
125.	141168	28-10-1975	FRANCE LUZERNE, 11 RUE DE MADRID, PARIS 8 EME FRANCE.	Treatment of green leafy vegetable matter for the recovery of proteins.
126.	141178	08-05-1974	UNILEVER LIMITED, UNILEVER HOUSE, BLACKFRIARS, LONDON, E.C. 4., ENGLAND.	Modified coffee products.

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127. 141179	04-06-1974	SACHS SYSTEMTECHNIK GMBH, JOHANN GEORGE GODE-MANNSTRASSE, SCHWEINFURT, F.R.G.	Apparatus for disinfection of liquids by a nodic oxidation.	
128. 141183	27-12-1974	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Preparation of chlorinated copper phthalocyanines.	
129. 141192	16-12-1974	SUMITOMO ALLUMINIUM SMELTING CO., LTD. 15, KITAHAMA 5-CHOME, HIGASHI-KU, OSAKA, JAPAN.	Production of Aluminium sulphate.	
130. 141193	18-12-1974	E.I. DU. PONT DE NEMOURS & CO. WILMINGTON, DELAWARE, U.S.A.	Treatment of pigmentary TiO <sub>2</sub> .	
131. 141219	10-11-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. THE HAGUE, THE NETHERLANDS.	Heat Exchanger for cooling hot gases.	
132. 141224	24-04-1974	DR. C. OTTO AND CO., GmbH., CHRISTSTRASSE 9, POSTFACH 1849/1850, 463 BOCHUM, WEST GERMANY.	Quenching of hot coke discharged from a coaking oven.	
133. 141226	03-07-1974	FIBREGLASS LTD., PRECAST ROAD, ST. HELENS, LANCASHIRE, ENGLAND.	Glass fibre products.	
134. 141234	18-11-1974	SNAMPROGETTI S.p.A., MILAN, ITALY.	Preparation of poly n-hydrocarbyl-iminoalkanes.	
135. 141238	04-02-1978	HOECHST A.G., FRANKFURT/MAIN, F.R.G.	Cleaning pellet shaped calcium hydroxide.	
136. 141239	23-07-1975	UNION CARBIDE CORPORATION, 270, PARK AVENUE, NEW YORK, STATE OF NEW YORK-10017, U.S.A.	Biologically active carbamate or urea compositions.	
137. 141240	29-07-1975	C.S.I.R., NEW DELHI, INDIA.	Production of spermicidal saponins from plants.	
138. 141243	24-05-1976	UCB S.A., 4-CHAUSEE DE CHARLEROI, SAINT GILLERLEZ BRUXELLES, BELGIUM.	Production of Lucknomycin.	
139. 141246	31-12-1973	IMPERIAL CHEMICAL INDUSTRIES LTD., MILLBANK, LONDON, ENGLAND.	Catalytic oxyhalogenation of hydrocarbons.	
140. 141261	05-06-1974	JOSEF MEISSNER BAYESS, HALBURTEL, 16-20, 5-KOLN 51, FRG.	Reprocessing the final acids of the nitroglycerin products.	
141. 141263	18-04-1975	PFIZER INC., NEW YORK, U.S.A.	$\alpha$ -6-deoxy-5-hydroxytetracycline hydrochloride.	
142. 141291	23-09-1974	NINUX HOLDING SOCIETE ANONYME, 23, AVENUE de-la PORTE- NEUVE, LUXEMBOURG.	Extracting copper from sulphides concentrates.	
143. 141294	21-01-1975	C.S.I.R., NEW DELHI, INDIA.	Synthesis of 3 substituted 4-oxo-5H Pyridazino (4, 5, 6) indols tubal occluding agents.	
144. 141299	03-11-1975	NUCHEM PLASTICS LTD., 20/6 MILESTONE, MATHURA ROAD, FARIDABAD-121001, HARYANA, INDIA.	Manufacture of butylated urea formaldehydeurea.	
145. 141300	25-01-1975	THE GOOD YEAR TIRE AND RUBBER CO., 1144 EAST MARKET STREET, ARKON, OHIO, U.S.A.	Preparation of dithiodinitriles.	
146. 141302	19-05-1973	KAMYR INC., GLENS FALLS, NEW YORK, U.S.A.	Apparatus for cellulose digesting.	
147. 141314	29-07-1975	SOCIETE DETUDAS DE PRODUITS CHIMIQUES, 16, RUE KLEMBER, 921130, ISSY-les-MOULINEAUX, FRANCE.	Preparation of Pyridoxine ester salts.	
148. 141317	27-11-1975	BEKUM MASCHNENFABRIKEN GmbH, 1 BERLIN 42, LANKWITZERSTRASSE 14/15, FRG.	Slow moulding unit for synthetic plastic materials.	
149. 141325	21-04-1976	JOHN WYETH AND BROTHER LTD., HUNTER-COMBELANE SOUTH, TAPLOW, MAIDENHEAD BERKSHIRE, ENGLAND.	Preparation of pyridine derivatives.	
150. 141332	05-03-1974	PPG INDUSTRIES INC., ONE GATEWAY CENTER, PITTSBURGH 22, PENNSYLVANIA, U.S.A.	Producing sheet glass.	
151. 141340	27-11-1974	SPIRAX SARCO LTD., SAINT GEORGE S ROAD, CHETTENHAM GL 50 3EN, GLOUCESTERSHIRE, ENGLAND.	Air-Line Lubricators.	

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152. 141346	15-01-1974	MITSUI TOATSU CHEMICALS INC., 2-5, 3-CHOME, KASUMIGASEKI, CHIYODA-KU, TOKYO, JAPAN.	Coloured organic material.	
153. 141349	08-02-1974	AMERICAN CYANAMID CO., NEW JERSEY, U.S.A.	Process for Melt-spinning shaped articles.	
154. 141350	13-02-1974	SIEMENS, AG. BERLIN AND MURICH, WEST GERMANY.	Production of elongated polyethylene structure.	
155. 141353	27-03-1974	BUNDY CORPORATION, FORT STREET DETROIT, MICHIGAN, U.S.A.	Corrosion resistant coating.	
156. 141354	08-05-1974	IMPERIAL CHEMICAL INDUSTRIES LTD., MILLBANK LONDON, ENGLAND.	Treating of liquid-borne biologically degradable waste material.	
157. 141370	22-05-1975	PERSONAL PRODUCTS CO., MILTOWN NEW JERSEY U.S.A.	A absorbent catamenial dressing.	
158. 141388	03-04-1974	ETHICON INC. SOMERVILLE NEW JERSEY U.S.A.	Polytetramethylene ether polyurethane urea resins.	
159. 141401	23-07-1974	CHEMIELIN A.G., ST. PETER-STRASSE, 25, 4020, LINZ, AUSTRIA.	Process for the preparation of sulphuric acid.	
160. 141405	18-12-1973	C.S.I.R., NEW DELHI, INDIA.	Inhibition of corrosion of metals in cooling water system.	
161. 141428	02-07-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. THE HAGUE, THE NETHERLANDS	Feeding finely divided solid fuel to a high pressure gasification chamber.	
162. 141433	06-03-1974	SAINT GOBAIN INDUSTRIES, 62, BOULEVARD VICTOR-BUGO, NEUILLY, SUR-SEINE, FRANCE.	Production of fibrous material.	

#### REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

124023. M/s. Bremshey Aktiengesellschaft.  
121906.  
130498. The Alkali and Chemical Corporation of India Ltd.,  
130499.

#### RENEWAL FEES PAID

98948 99188 99194 99314 99452 99464 99764 99766 99785  
99820 100261 101294 104756 104729 104765 104796 104869  
104878 105152 105195 105545 108945 109479 110144 110156  
110157 110229 110271 110298 110374 110408 110466 110477  
110479 110487 110539 110703 110714 110817 111005 111022  
111202 111290 111645 112540 115307 115355 115378 115379  
115385 115481 115494 115519 115583 115902 116094 116118  
117846 118290 119083 120434 120791 120834 120857 120860  
120864 120920 120930 120951 120967 120989 121003 121025  
121031 121032 121041 121131 121282 121283 121317 121350  
121355 121381 121423 121425 121462 121474 121744 121954  
122712 122173 123194 123261 124650 125603 126095 126129  
126141 126152 126153 126154 126184 126193 126337 126446  
126567 126600 126608 126743 126758 126793 126803 126839  
126892 126897 127255 130589 130843 130844 130891 130904  
130928 130945 130951 131000 131058 131060 131184 131235  
131398 131564 131934 133362 133363 133567 134228 135128  
135177 135186 135190 135204 131258 135219 135246 135265  
135270 135272 135402 135551 135799 135835 136233 136234  
136390 136438 136531 136623 136633 137370 138102 138136  
138380 138503 138504 138639 138788 138930 138953 139058  
139187 139424 139516 139602 139683 139775 139844 140033  
140067 140093 140104 140155 140591 140603 140849 140929  
141051 141094 141263 141381 141503 141519 141758 142081  
142097 142203 142244 142317 142328 142409 142422 142454  
142489 142622 142846 142851 143117 143160 143173 143287  
143340 143382 143454 143523 143748 143749 143775 143907  
143986 144027 144241 144384 144478 144578 144608 144959

144990 145749 145872 145946 145988 146041 146077 146235  
146242 146302 146313 146343 146362 146425 146441 146445  
146455 146467 146479 146480

#### CESSATION OF PATENTS

135145 135146 135149 135162 135163 135165 135166 135167  
135168 135169 135172 135173 135175 135178 135185 135189  
135191 135198 135203 135206 135210 135212 135216 135222  
135223 135233 135240 135242 135244 135247 135250 135251  
135252 135267 135271 135273 135274 135276 135277 135289  
135292 135294 135295 135296 135300 135304 135305 135306  
139690 143232 144458 145795

#### RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 130022 granted to Dart Industries, Inc., for an invention relating to "locally distortable integrally molded thermoplastic closure member."

The patent ceased on the 21st January, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 19th January, 1980.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-17 on or before the 10th July 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 141960 granted to David Sciaky, for an invention relating to "rotating arc welding method and apparatus".

The patent ceased on the 10th February, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 5th January, 1980.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 10th July 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

- Class 1. No. 148608. Fixit Hardwares. Shop No. 10,217 Bapu Khote Street, Bombay-400003, Maharashtra, India, Indian Partnership concern. "Door Chain". July 9, 1979.
- Class 1. No. 148609. Mohamedi Tin Pressing. 16, Nowroj Hill Road, Near Char Nal Dongri, Bombay-400009, Maharashtra India, Indian Partnership Concern. "The Pocket Mirrors". July 9, 1979.
- Class 1. No. 148665. Praga Die Casting & Metal Industries. A/31, Laghu Udyog Kendra, I.B. Patel Road, Goregaon (East), Bombay-400063, Maharashtra, India, a Registered Partnership Firm. "Baby Mixer cum Grinder Toy". July 19, 1979.
- Class 3. No. 148601. Elessa S.p.A., an Italian Company of Via degli Omenoni 2, 20121 Milano, Italy, "Disc Handwheel with Handgrip". July 6, 1979.
- Class 3. No. 148604. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "Disc Handwheel". July 7, 1979.
- Class 3. No. 148605. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "a Handwheel". July 7, 1979.
- Class 3. No. 148606. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "A Triangular Knob". July 9, 1979.
- Class 3. No. 148652. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "A Knob". July 17, 1979.
- Class 3. No. 148659. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "A Knob". July 18, 1979.
- Class 3. No. 148666. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121, Milano, Italy. "Knob". July 19, 1979.
- Class 3. No. 148667. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "a Grooved Knob". July 20, 1979.
- Class 3. No. 148671. Elessa S.p.A., an Italian Company, o. Via degli Omenoni 2, 20121 Milano, Italy. "Crank". July 21, 1979.
- Class 3. No. 148676. Elessa S.p.A., an Italian Company, of Via degli Omenoni 2, 20121 Milano, Italy. "Crank". July 23, 1979.
- Class 3. No. 148750. Sharbha Enterprises. Indian Partnership Firm of 181/183, First floor, Samuel Street, Bombay-400009, State of Maharashtra, India. "Bottles". August 13, 1979.
- Class 3. No. 148755. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 20, 1979.
- Class 3. No. 149031. G.P. Tronics. An Indian Partnership Firm of 19/1/87, Seal Lane, Calcutta-700015, West Bengal, India. "Binocular". November 23, 1979.
- Class 4. No. 148663. M/s. Revon Cosmetics, 6, Abida House, Dondad Cross Lane, 1st floor, Room 2/3, Bombay-400009, Maharashtra, an Indian Proprietary Concern. "Glass Bottle". July 19, 1979.
- Class 4. No. 148664. M/s. Revon Cosmetics, 6, Abida House, Dondad Cross Lane, 1st floor, Room No. 2/3, Bombay-400009, Maharashtra, an Indian Proprietary Concern. "Bottle". July 19, 1979.
- Class 4. No. 148749. Sharbha Enterprises. Indian Partnership Firm. 181/183, first floor, Samuel Street, Bombay-400009, State of Maharashtra, India. "Bottles". August 13, 1979.
- Class 4. No. 148771. Punjab Metals, 306, Lotus House, 33-A, New Marine Lines, Bombay-400020, Maharashtra, an Indian Proprietary Firm. "Sugar Dispenser". August 27, 1979.
- Class 6. No. 148653. Combine "Sport" for production and sale of sports and tourist equipment, export-import, 11000 Beograd. Visnjicka 84, Yugoslavia. "Boxing Gloves". July 17, 1979.
- Class 10. No. 148754. Bata India Limited, 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "Footwear". August 20, 1979.

#### EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

Design Nos. 142256, 142436, 142503, 142504 & 142506 ..... Class 3.

#### EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS

Design Nos. 137119 ..... Class 1.  
137540, 137541, 142503,  
142504 & 142506 ..... Class 3.

S. VEDARAMAN

Controller General of Patents, Designs  
and Trade Marks

